

Report to:
Sabre Beebe



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

SIMCOE LLC

Project Name: SJS Bradenhead

Work Order: E108051

Job Number: 20095-0001

Received: 8/16/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/24/21

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/24/21

Sabre Beebe
1199 Main Ave. Suite 242
Durango, CO 81301



Project Name: SJS Bradenhead
Workorder: E108051
Date Received: 8/16/2021 3:14:00PM

Sabre Beebe,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2021 3:14:00PM, under the Project Name: SJS Bradenhead.

The analytical test results summarized in this report with the Project Name: SJS Bradenhead apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Tom Brown
Technical Representative
Cell: 832-444-7704
tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
Tapp Com 005 BHD 30-045-24332	5
QC Summary Data	6
QC - Wet Chem/Gravimetric by SM2540C	6
QC - Wet Chemistry by 9040C/4500H+B	7
QC - Wet Chemistry by SM2320B	8
QC - Wet Chemistry by 9050A/2510B	9
QC - Dissolved Metals by EPA 6010C	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name:	SJS Bradenhead	Reported: 08/24/21 13:31
	Project Number:	20095-0001	
	Project Manager:	Sabre Beebe	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Tapp Com 005 BHD 30-045-24332	E108051-01A	Aqueous	08/16/21	08/16/21	Poly 500mL



Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: SJS Bradenhead Project Number: 20095-0001 Project Manager: Sabre Beebe	Reported: 8/24/2021 1:31:36PM
---	--	---

Tapp Com 005 BHD 30-045-24332

E108051-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS		Batch: 2134029	
Total Dissolved Solids	4420	25.0	1	08/21/21	08/23/21	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: RAS		Batch: 2134014	
pH @25°C	9.51		1	08/18/21 10:00	08/18/21 11:56	H5
Wet Chemistry by SM2320B	mg/L	mg/L	Analyst: JL		Batch: 2135003	
Total Alkalinity (as CaCO ₃ at pH 4.5)	82.0	10.0	1	08/23/21	08/23/21	
Wet Chemistry by 9050A/2510B	uS/cm	uS/cm	Analyst: RAS		Batch: 2135008	
Specific Conductance (@ 25 C)	6080	10.0	1	08/23/21	08/24/21	
Dissolved Metals by EPA 6010C	mg/L	mg/L	Analyst: AC		Batch: 2135001	
Calcium	11.6	2.00	2	08/22/21	08/23/21	
Iron	ND	4.00	2	08/22/21	08/23/21	
Magnesium	ND	2.00	2	08/22/21	08/23/21	
Potassium	3.20	2.00	2	08/22/21	08/23/21	
Sodium	1300	200	100	08/22/21	08/22/21	
Sodium Absorption Ratio	105		1	08/24/21	08/24/21	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS		Batch: 2134013	
Fluoride	ND	12.5	50	08/17/21	08/17/21	
Chloride	ND	100	50	08/17/21	08/17/21	
Nitrite-N	ND	12.5	50	08/17/21 09:55	08/17/21 14:53	
Nitrate-N	ND	12.5	50	08/17/21 09:55	08/17/21 14:53	
o-Phosphate-P	ND	12.5	50	08/17/21 09:55	08/17/21 14:53	
Sulfate	6450	100	50	08/17/21	08/17/21	



QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	8/24/2021 1:31:36PM

Wet Chem/Gravimetric by SM2540C

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

Blank (2134029-BLK1)					Prepared: 08/20/21 Analyzed: 08/23/21				
Total Dissolved Solids	ND	10.0							
LCS (2134029-BS1)					Prepared: 08/20/21 Analyzed: 08/23/21				
Total Dissolved Solids	90.0	10.0	100		90.0	55-134			
Duplicate (2134029-DUP1)					Source: E108053-01 Prepared: 08/20/21 Analyzed: 08/24/21				
Total Dissolved Solids	57800	10.0		57100		1.18	5		



QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	8/24/2021 1:31:36PM

Wet Chemistry by 9040C/4500H+B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	

LCS (2134014-BS1) Prepared: 08/18/21 Analyzed: 08/18/21

pH 8.00 8.00 100 98.75-101.25

Duplicate (2134014-DUP1) Source: E108050-01 Prepared: 08/18/21 Analyzed: 08/18/21

pH 6.36 6.36 0.00 20



QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	8/24/2021 1:31:36PM

Wet Chemistry by SM2320B

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

LCS (2135003-BS1) Prepared: 08/23/21 Analyzed: 08/23/21

Total Alkalinity (as CaCO3 at pH 4.5)	266	10.0	250	106	70-130
---------------------------------------	-----	------	-----	-----	--------

Duplicate (2135003-DUP1) Source: E108055-01 Prepared: 08/23/21 Analyzed: 08/23/21

Total Alkalinity (as CaCO3 at pH 4.5)	1780	10.0	1770	0.562	20
---------------------------------------	------	------	------	-------	----



QC Summary Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: SJS Bradenhead Project Number: 20095-0001 Project Manager: Sabre Beebe	Reported: 8/24/2021 1:31:36PM
---	--	---

Wet Chemistry by 9050A/2510B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	uS/cm	uS/cm	uS/cm	uS/cm	%	%	%	%	

Blank (2135008-BLK1)

Prepared: 08/23/21 Analyzed: 08/24/21

Specific Conductance (@ 25 C) ND 10.0

LCS (2135008-BS1)

Prepared: 08/23/21 Analyzed: 08/24/21

Specific Conductance (@ 25 C) 1420 10.0 1410 101 98-102

Duplicate (2135008-DUP1)

Source: E108047-01 Prepared: 08/23/21 Analyzed: 08/24/21

Specific Conductance (@ 25 C) 70.1 10.0 68.0 3.04 20



QC Summary Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: SJS Bradenhead Project Number: 20095-0001 Project Manager: Sabre Beebe	Reported: 8/24/2021 1:31:36PM
---	--	----------------------------------

Dissolved Metals by EPA 6010C

Analyst: AC

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	----------------	----------------------------	------------------------	--------------------------	----------	--------------------	----------	-------------------	-------

Blank (2135001-BLK1)

Prepared: 08/22/21 Analyzed: 08/22/21

Calcium	ND	1.00
Iron	ND	2.00
Magnesium	ND	1.00
Potassium	ND	1.00
Sodium	ND	2.00

LCS (2135001-BS1)

Prepared: 08/22/21 Analyzed: 08/22/21

Calcium	50.1	1.00	50.0	100	80-120
Iron	100	2.00	100	100	80-120
Magnesium	49.3	1.00	50.0	98.7	80-120
Potassium	5.29	1.00	5.00	106	80-120
Sodium	17.9	2.00	20.0	89.6	80-120

LCS Dup (2135001-BSD1)

Prepared: 08/22/21 Analyzed: 08/22/21

Calcium	47.8	1.00	50.0	95.7	80-120	4.69	20
Iron	95.5	2.00	100	95.5	80-120	4.67	20
Magnesium	48.8	1.00	50.0	97.6	80-120	1.12	20
Potassium	5.22	1.00	5.00	104	80-120	1.45	20
Sodium	17.6	2.00	20.0	88.2	80-120	1.57	20



QC Summary Data

SIMCOE LLC	Project Name:	SJS Bradenhead	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Sabre Beebe	8/24/2021 1:31:36PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

Blank (2134013-BLK1)

Prepared: 08/17/21 Analyzed: 08/17/21

Fluoride	ND	0.250
Chloride	ND	2.00
Nitrite-N	ND	0.250
Nitrate-N	ND	0.250
o-Phosphate-P	ND	0.250
Sulfate	ND	2.00

LCS (2134013-BS1)

Prepared: 08/17/21 Analyzed: 08/17/21

Fluoride	2.65	0.250	2.50	106	90-110
Chloride	25.5	2.00	25.0	102	90-110
Nitrite-N	2.61	0.250	2.50	104	90-110
Nitrate-N	2.67	0.250	2.50	107	90-110
o-Phosphate-P	12.6	0.250	12.5	101	90-110
Sulfate	25.3	2.00	25.0	101	90-110

Matrix Spike (2134013-MS1)

Source: E108050-01 Prepared: 08/17/21 Analyzed: 08/17/21

Fluoride	4.14	0.250	2.50	ND	166	80-120	M2
Chloride	45.2	2.00	25.0	5.47	159	80-120	M2
Nitrite-N	0.657	0.250	2.50	ND	26.3	80-120	M2
Nitrate-N	4.20	0.250	2.50	ND	168	80-120	M2
o-Phosphate-P	13.9	0.250	12.5	ND	111	80-120	
Sulfate	42.3	2.00	25.0	ND	169	80-120	M2

Matrix Spike Dup (2134013-MSD1)

Source: E108050-01 Prepared: 08/17/21 Analyzed: 08/17/21

Fluoride	4.08	0.250	2.50	ND	163	80-120	1.43	20	M2
Chloride	44.5	2.00	25.0	5.47	156	80-120	1.61	20	M2
Nitrite-N	0.684	0.250	2.50	ND	27.4	80-120	4.03	20	M2
Nitrate-N	4.14	0.250	2.50	ND	166	80-120	1.58	20	M2
o-Phosphate-P	13.2	0.250	12.5	ND	106	80-120	4.82	20	
Sulfate	41.5	2.00	25.0	ND	166	80-120	1.90	20	M2

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

SIMCOE LLC	Project Name:	SJS Bradenhead	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Sabre Beebe	08/24/21 13:31

H5 pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Envirotech Analytical Laboratory

Printed: 8/16/2021 4:52:15PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	SIMCOE LLC	Date Received:	08/16/21 15:14	Work Order ID:	E108051
Phone:	(970) 828-4060	Date Logged In:	08/16/21 16:50	Logged In By:	Raina Schwanz
Email:	sabre.beebe@ikavenergy.com	Due Date:	08/23/21 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Sabre Beebe**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? No
8. If yes, was cooler received in good condition? NA
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? No

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 25.9°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? Yes

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 45784

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 45784
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	12/20/2021